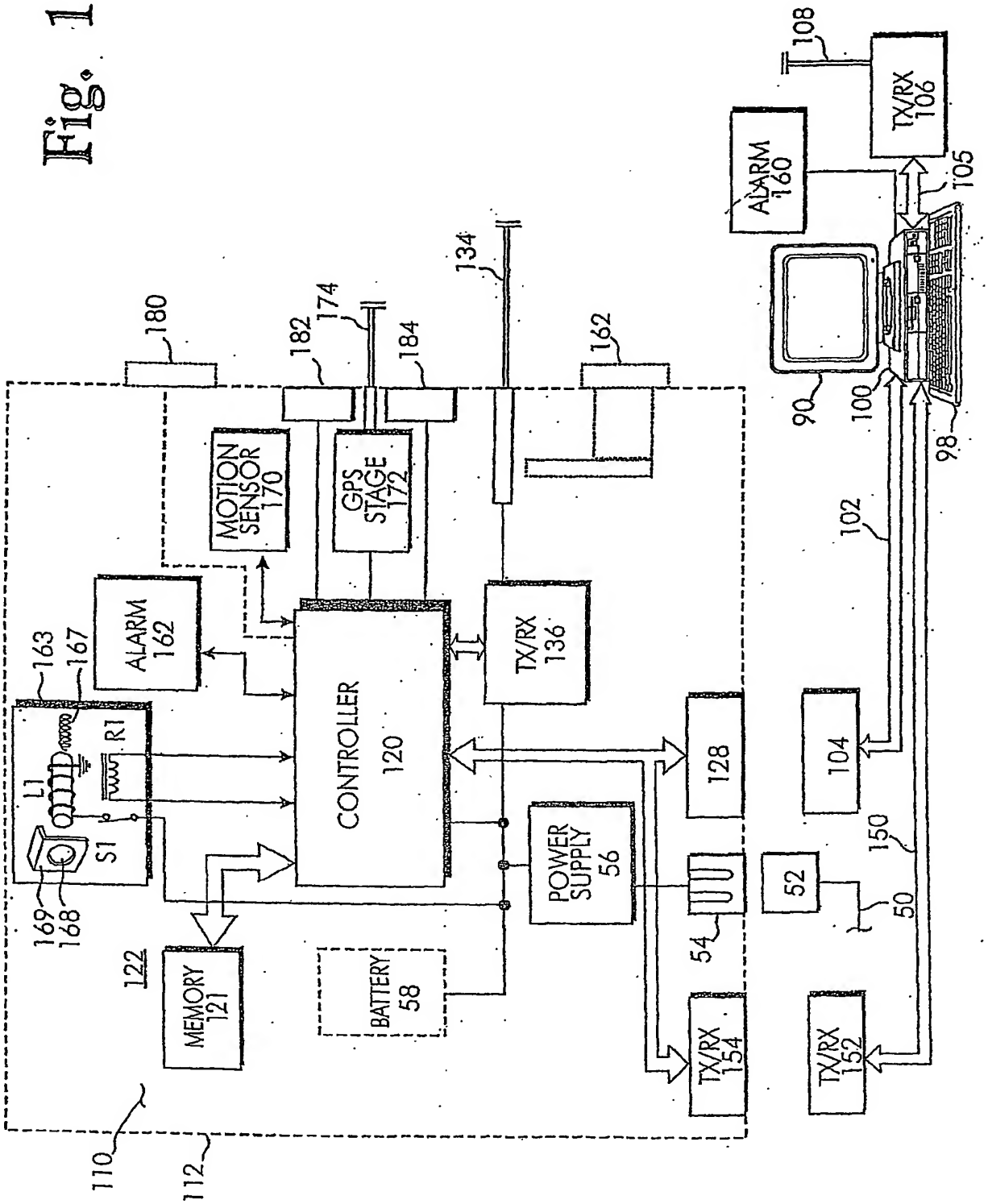
Fig. 1


108
TX/RX 106
ALARM 160
105
134
180
182
174
184
162
MOTION SENSOR 170
GPS STAGE 172
90
100
98
102
ALARM 162
163
167
CONTROLLER 120
TX/RX 136
R1
L1
S1
128
104
POWER SUPPLY 56
150
52
50
169
168
122
MEMORY 121
BATTERY 58
54
TX/RX 154
TX/RX 152
110
112

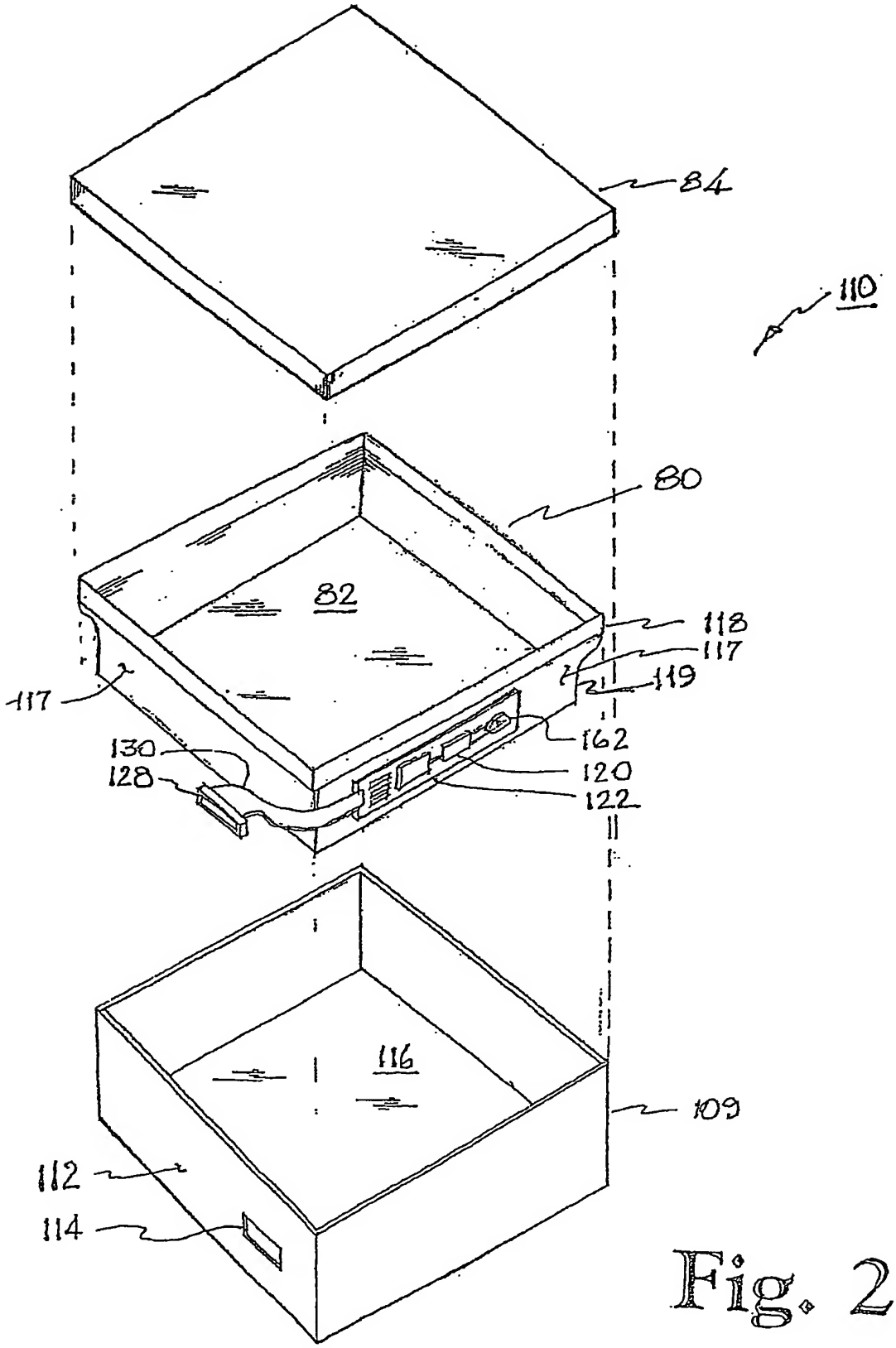


Fig. 2

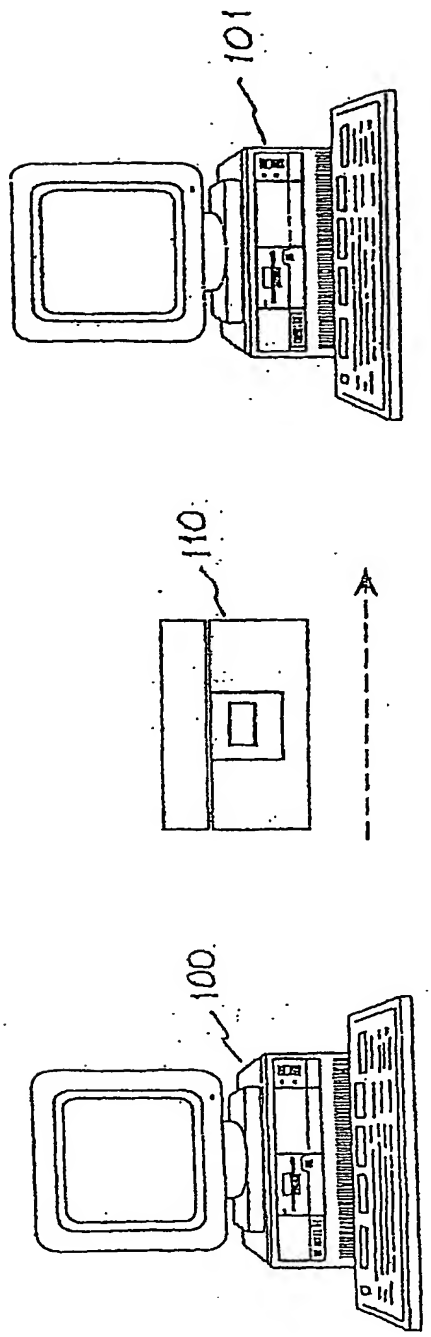


Fig.3

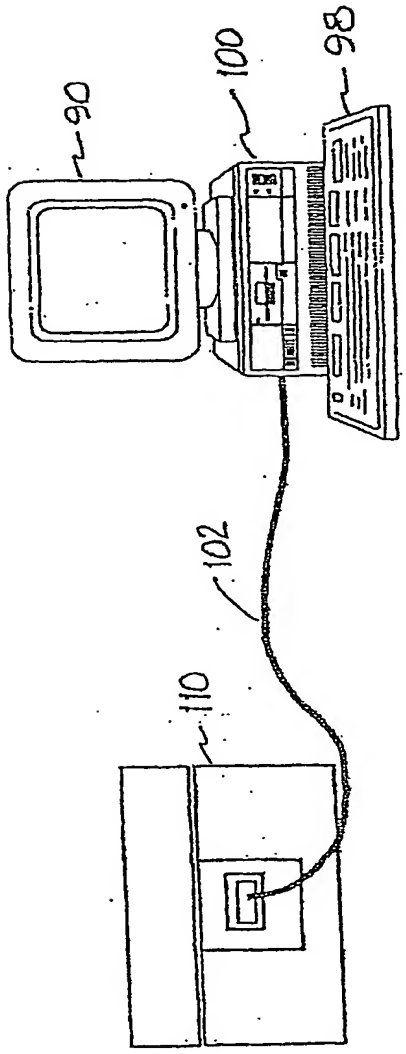


Fig.4

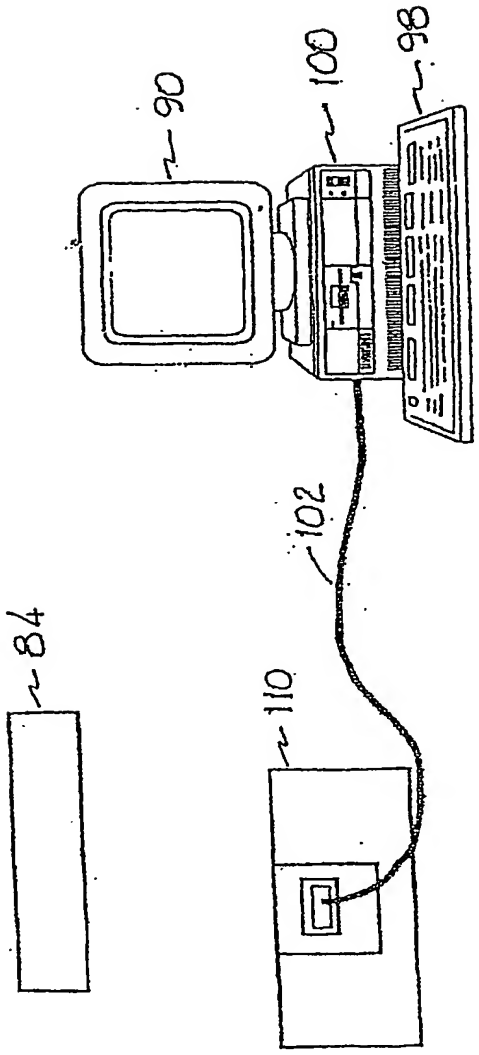


Fig. 5

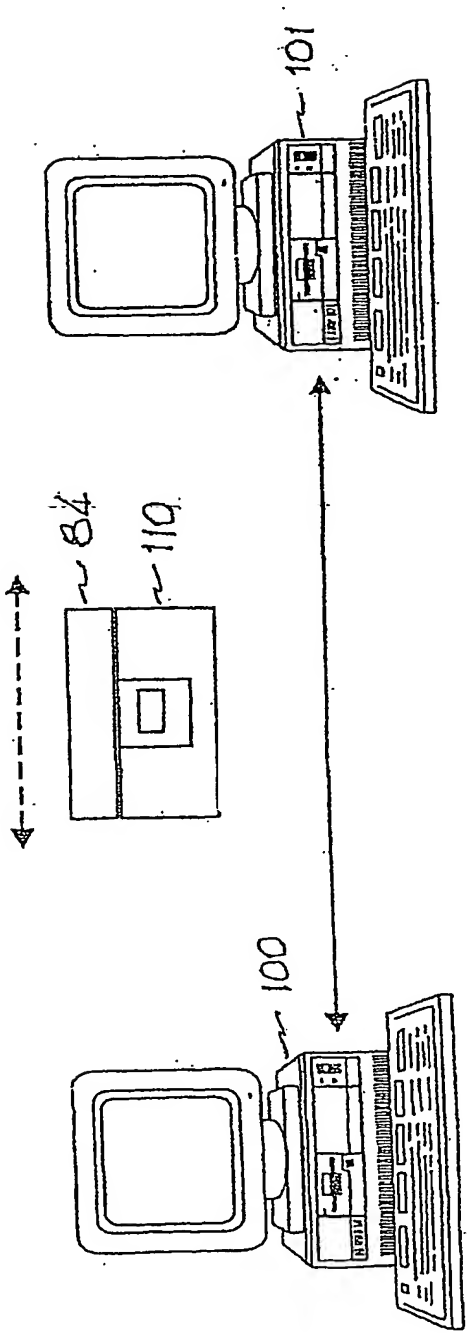


Fig. 6

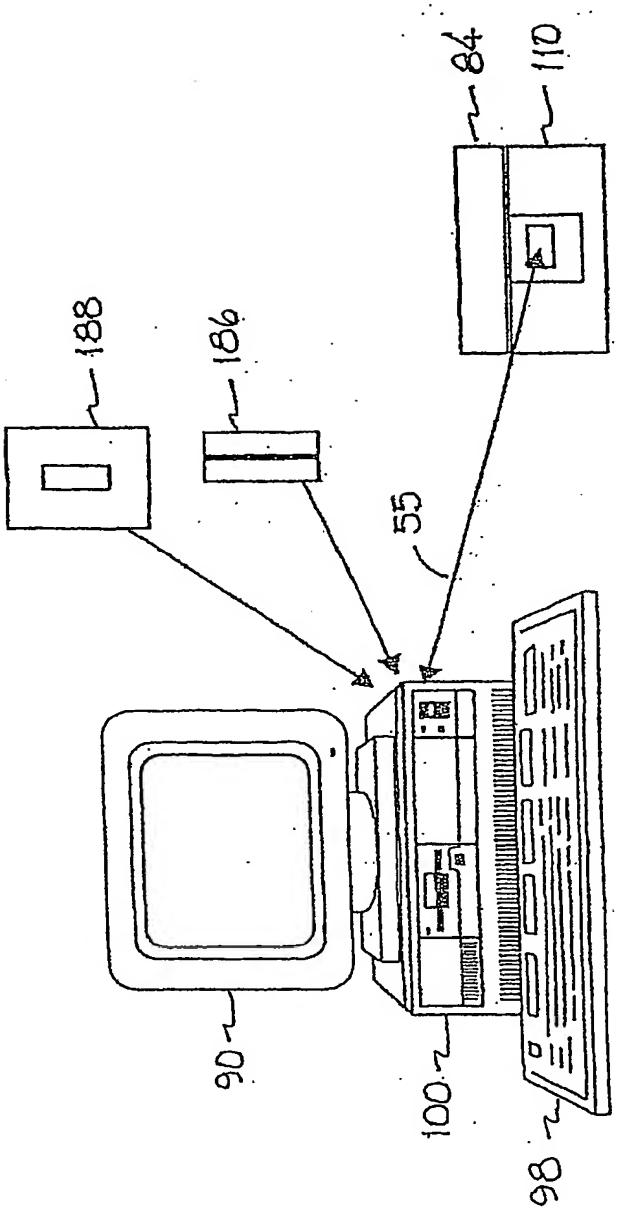


Fig. 7

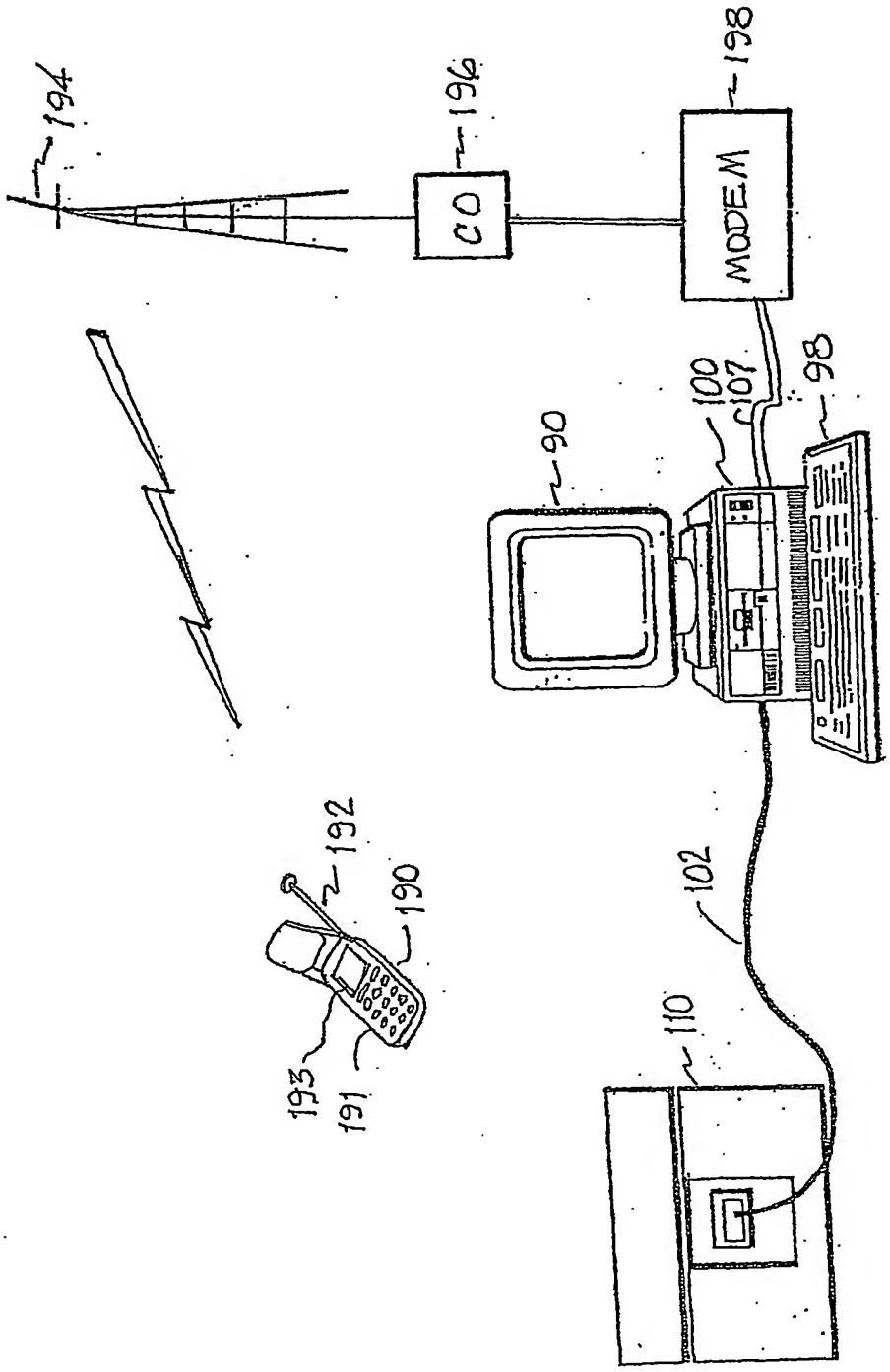


Fig 8

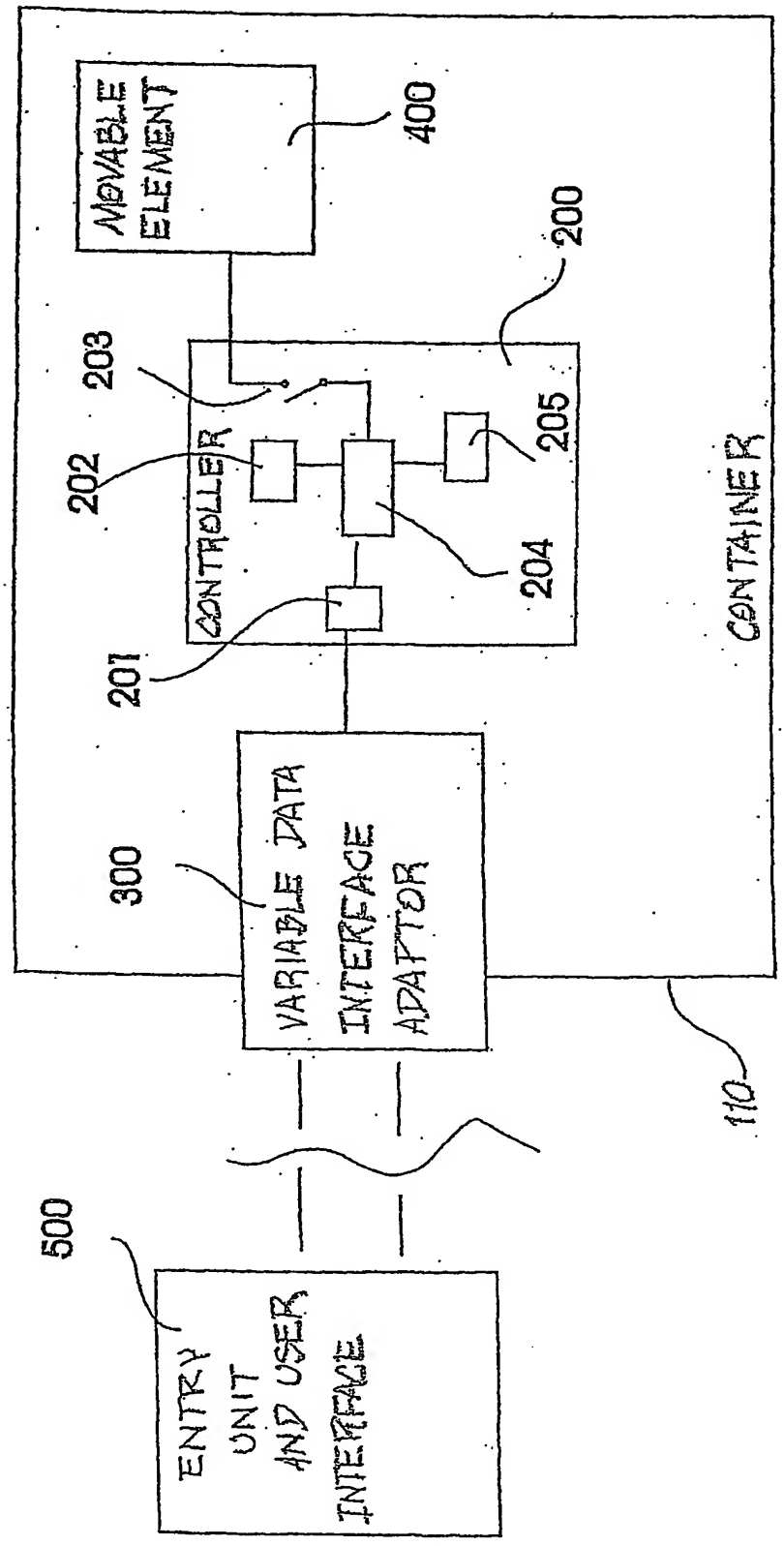

MOVABLE ELEMENT
400
200
203
202
CONTROLLER
205
204
201
CONTAINER
300
VARIABLE DATA INTERFACE ADAPTOR
110
500
ENTRY UNIT AND USER INTERFACE

FIG. 9

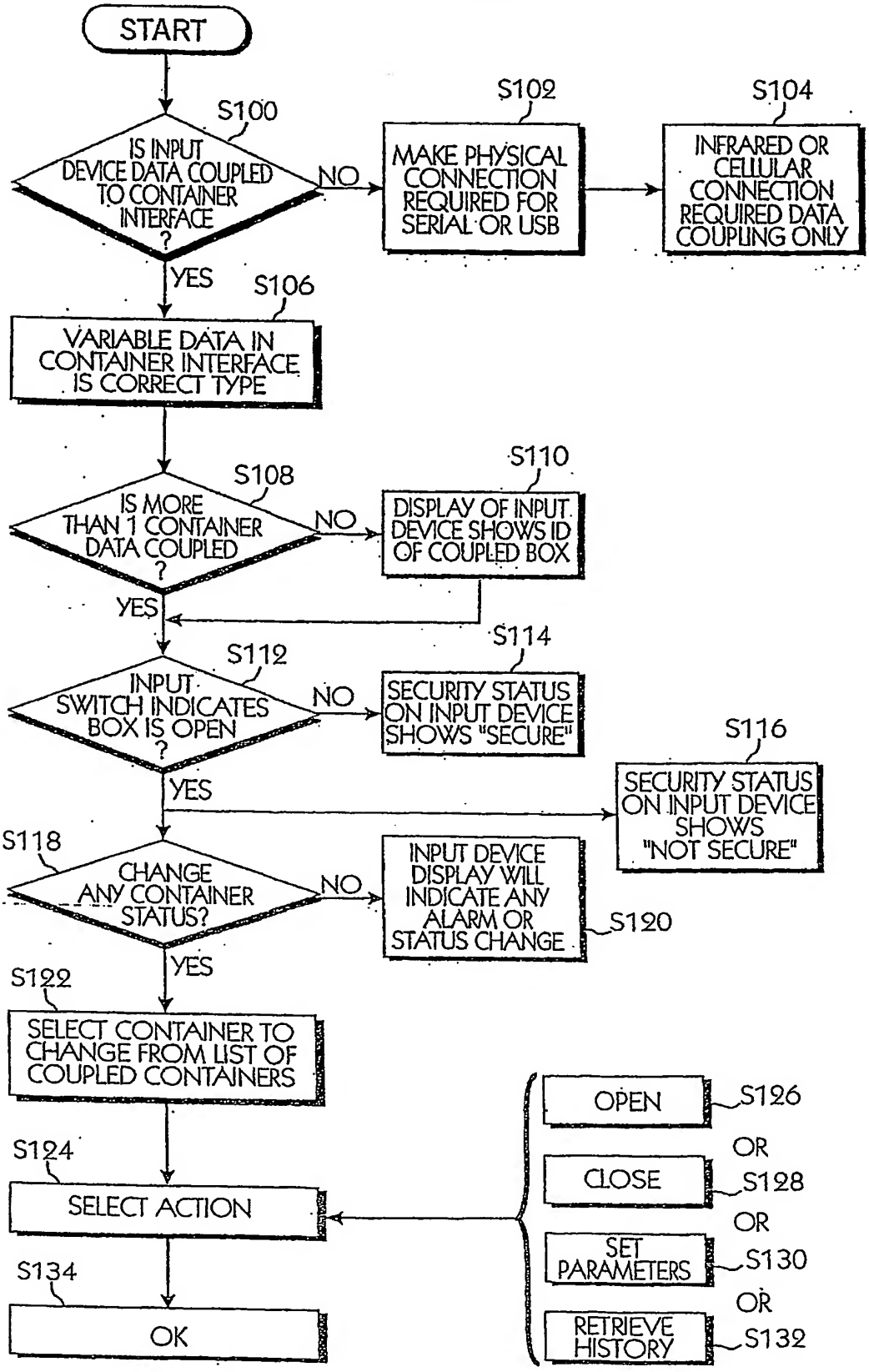

START
S100
IS INPUT DEVICE DATA COUPLED TO CONTAINER INTERFACE ?
NO
S102
MAKE PHYSICAL CONNECTION REQUIRED FOR SERIAL OR USB
S104
INFRARED OR CELLULAR CONNECTION REQUIRED DATA COUPLING ONLY
YES
S106
VARIABLE DATA IN CONTAINER INTERFACE IS CORRECT TYPE
S108
IS MORE THAN 1 CONTAINER DATA COUPLED ?
NO
S110
DISPLAY OF INPUT DEVICE SHOWS ID OF COUPLED BOX
YES
S112
INPUT SWITCH INDICATES BOX IS OPEN ?
NO
S114
SECURITY STATUS ON INPUT DEVICE SHOWS "SECURE"
S116
SECURITY STATUS ON INPUT DEVICE SHOWS "NOT SECURE"
YES
S118
CHANGE ANY CONTAINER STATUS?
NO
INPUT DEVICE DISPLAY WILL INDICATE ANY ALARM OR STATUS CHANGE
S120
YES
S122
SELECT CONTAINER TO CHANGE FROM LIST OF COUPLED CONTAINERS
S124
SELECT ACTION
S134
OK
OPEN
S126
OR
CLOSE
S128
OR
SET PARAMETERS
S130
OR
RETRIEVE HISTORY
S132

Fig. 10

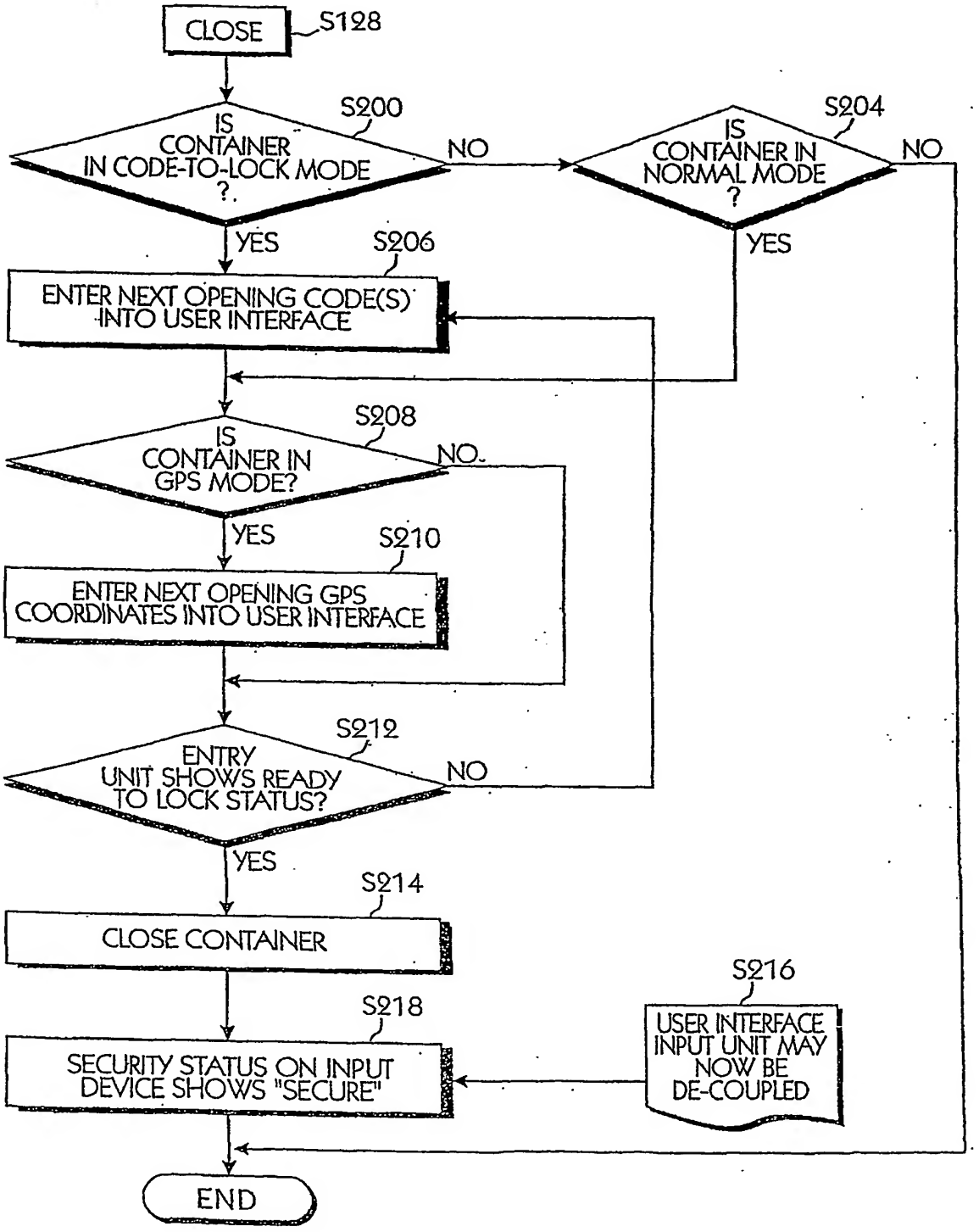

CLOSE
S128
S200
IS CONTAINER IN CODE-TO-LOCK MODE ?
NO
S204
IS CONTAINER IN NORMAL MODE ?
NO
YES
YES
S206
ENTER NEXT OPENING CODE(S) INTO USER INTERFACE
S208
IS CONTAINER IN GPS MODE?
NO
YES
S210
ENTER NEXT OPENING GPS COORDINATES INTO USER INTERFACE
S212
ENTRY UNIT SHOWS READY TO LOCK STATUS?
NO
YES
S214
CLOSE CONTAINER
S216
USER INTERFACE INPUT UNIT MAY NOW BE DE-COUPLED
S218
SECURITY STATUS ON INPUT DEVICE SHOWS "SECURE"
END

Fig. 11

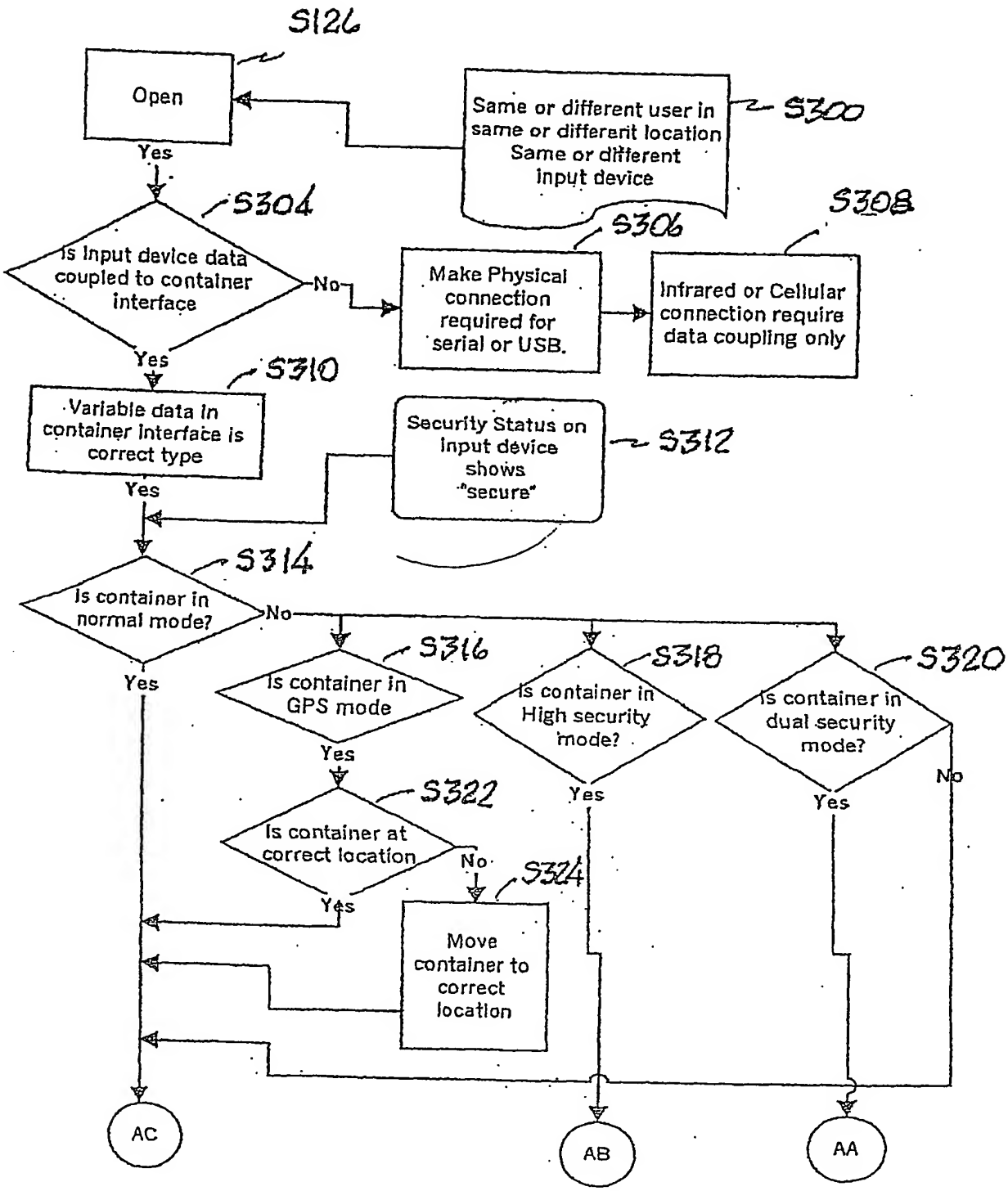

S126
Open
Yes
S300
Same or different user in same or different location Same or different input device
S304
Is input device data coupled to container interface
No
Yes
S306
Make Physical connection required for serial or USB.
S308
Infrared or Cellular connection require data coupling only
S310
Variable data in container interface is correct type
Yes
S312
Security Status on input device shows "secure"
S314
Is container in normal mode?
No
Yes
S316
Is container in GPS mode
Yes
S318
Is container in High security mode?
Yes
S320
Is container in dual security mode?
Yes
No
S322
Is container at correct location
No
Yes
S324
Move container to correct location
AC
AB
AA

Fig. 12

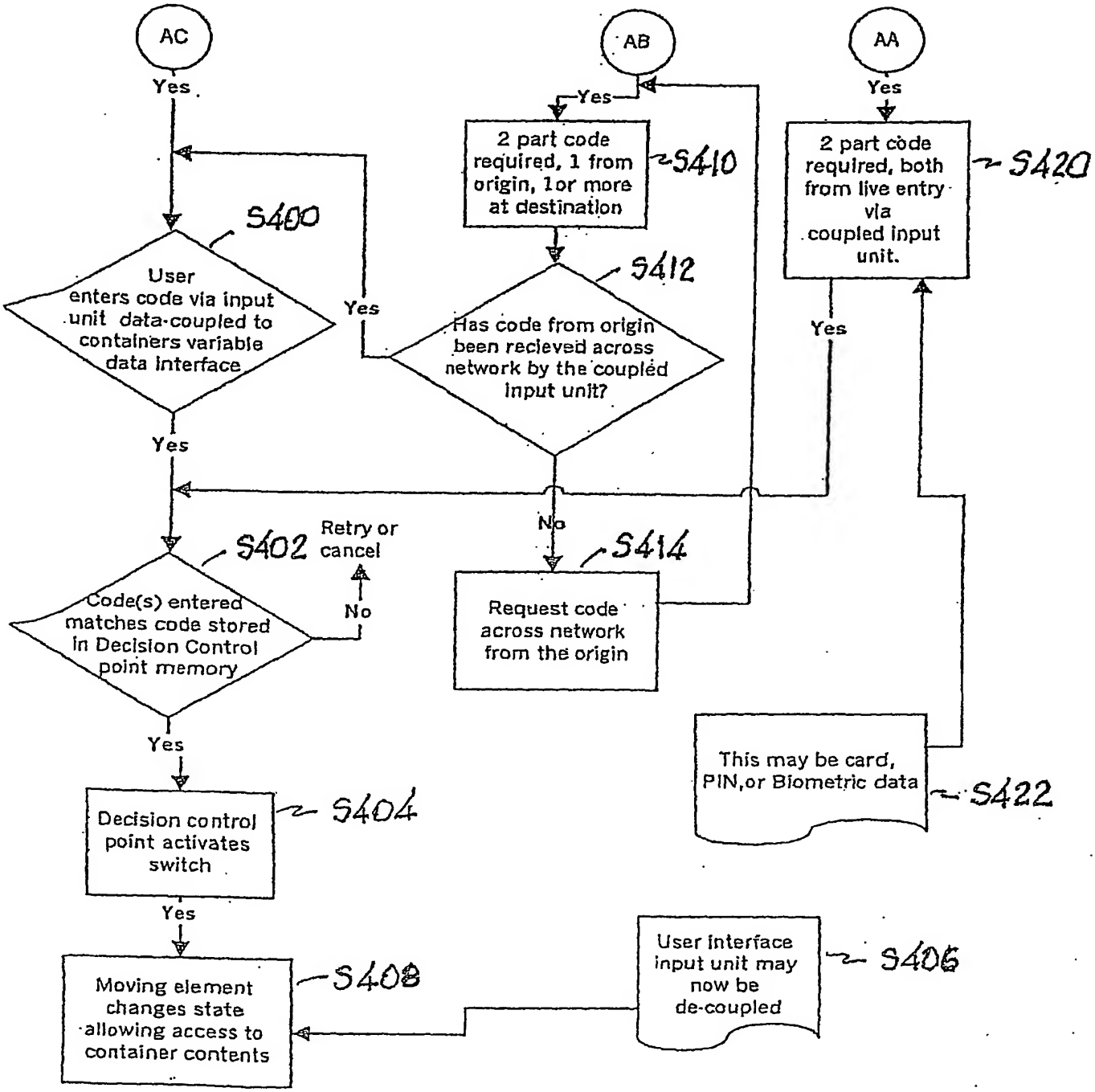

AC
Yes
S400
User enters code via input unit data-coupled to containers variable data interface
Yes
S402
Retry or cancel
Code(s) entered matches code stored in Decision Control point memory
No
Yes
S404
Decision control point activates switch
Yes
S408
Moving element changes state allowing access to container contents
AB
Yes
S410
2 part code required, 1 from origin, 1or more at destination
S412
Has code from origin been recieved across network by the coupled input unit?
No
S414
Request code across network from the origin
AA
Yes
S420
2 part code required, both from live entry via coupled input unit.
Yes
This may be card, PIN,or Biometric data
S422
User interface input unit may now be de-coupled
S406

FIG. 13

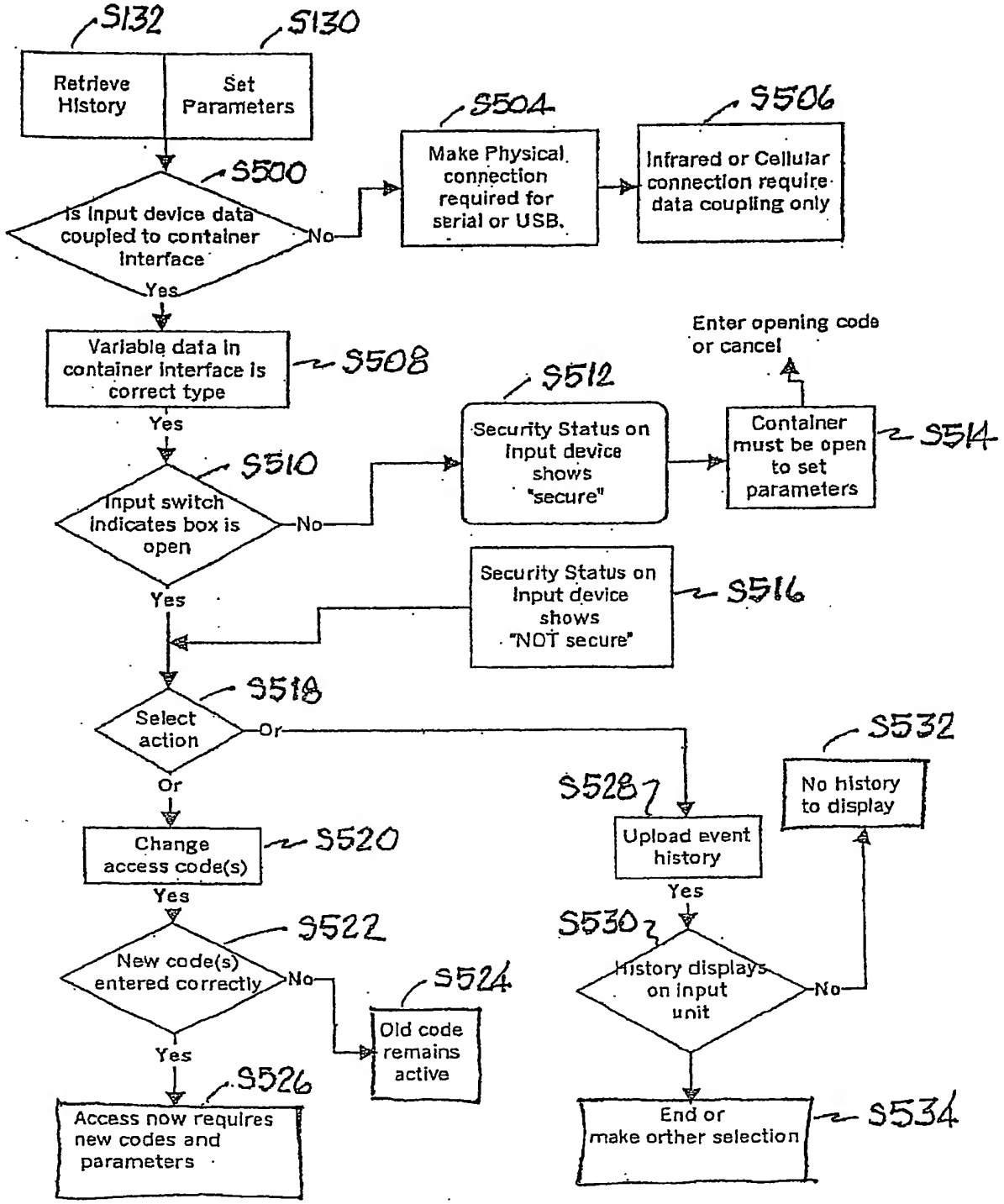

S132
S130
Retrieve History
Set Parameters
S500
Is input device data coupled to container interface
No
Yes
S504
Make Physical connection required for serial or USB.
S506
Infrared or Cellular connection require data coupling only
Variable data in container interface is correct type
S508
Yes
S510
Input switch indicates box is open
No
Yes
S512
Security Status on input device shows "secure"
Enter opening code or cancel
Container must be open to set parameters
S514
Security Status on input device shows "NOT secure"
S516
S518
Select action
Or
Or
S528?
Upload event history
Yes
S530
History displays on input unit
No
S532
No history to display
Change access code(s)
S520
Yes
S522
New code(s) entered correctly
No
Yes
S524
Old code remains active
S526
Access now requires new codes and parameters
End or make orther selection
S534

Fig. 14

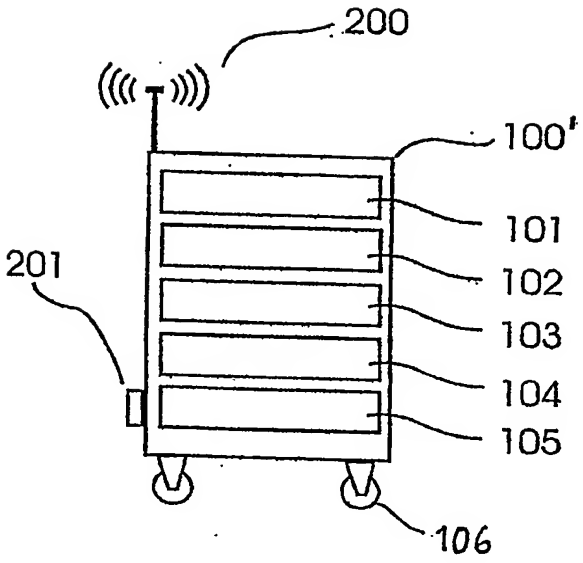


FIG 15

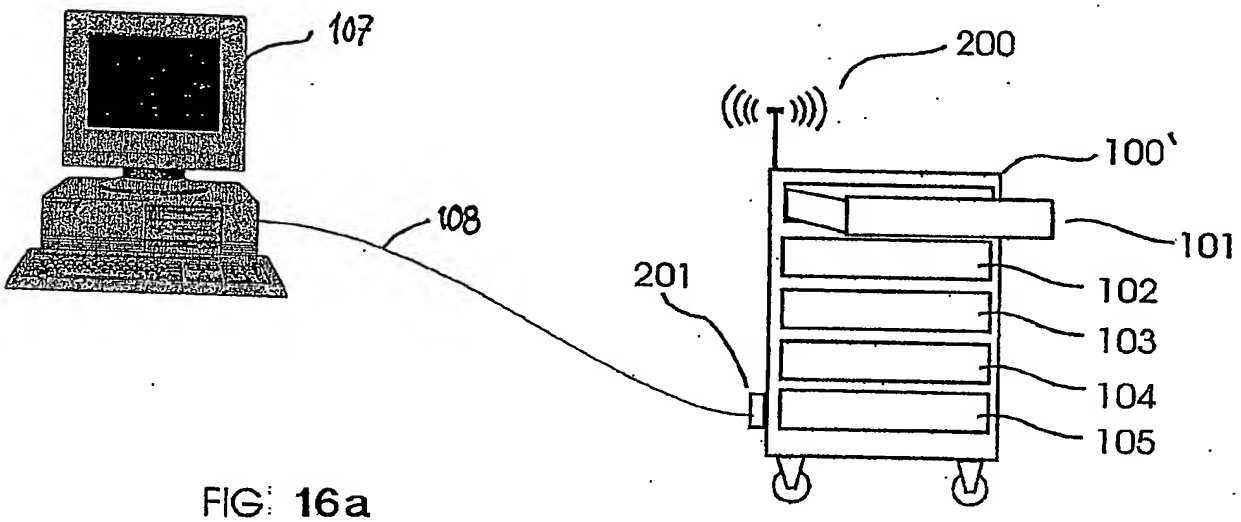


FIG 16a

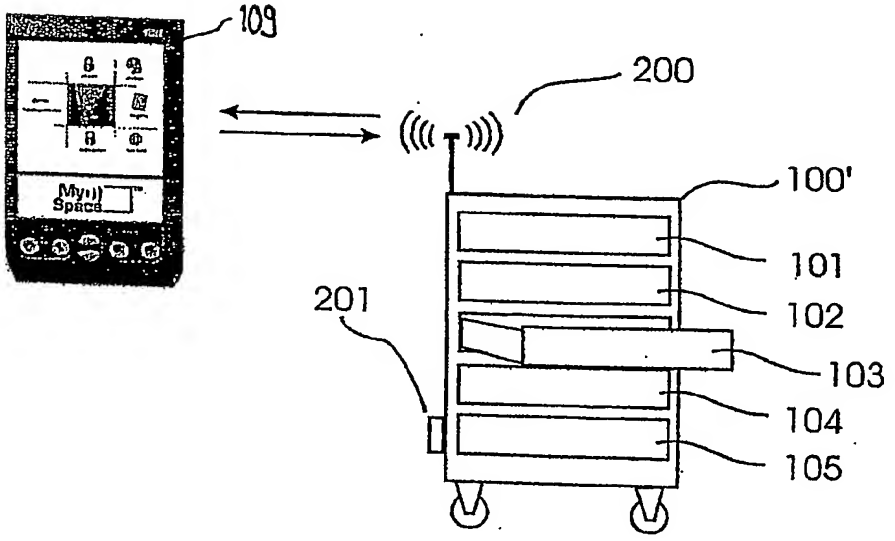


FIG 16b

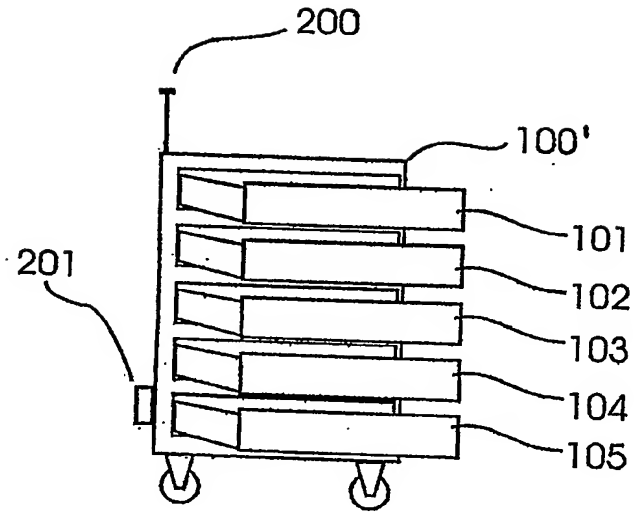


FIG 17

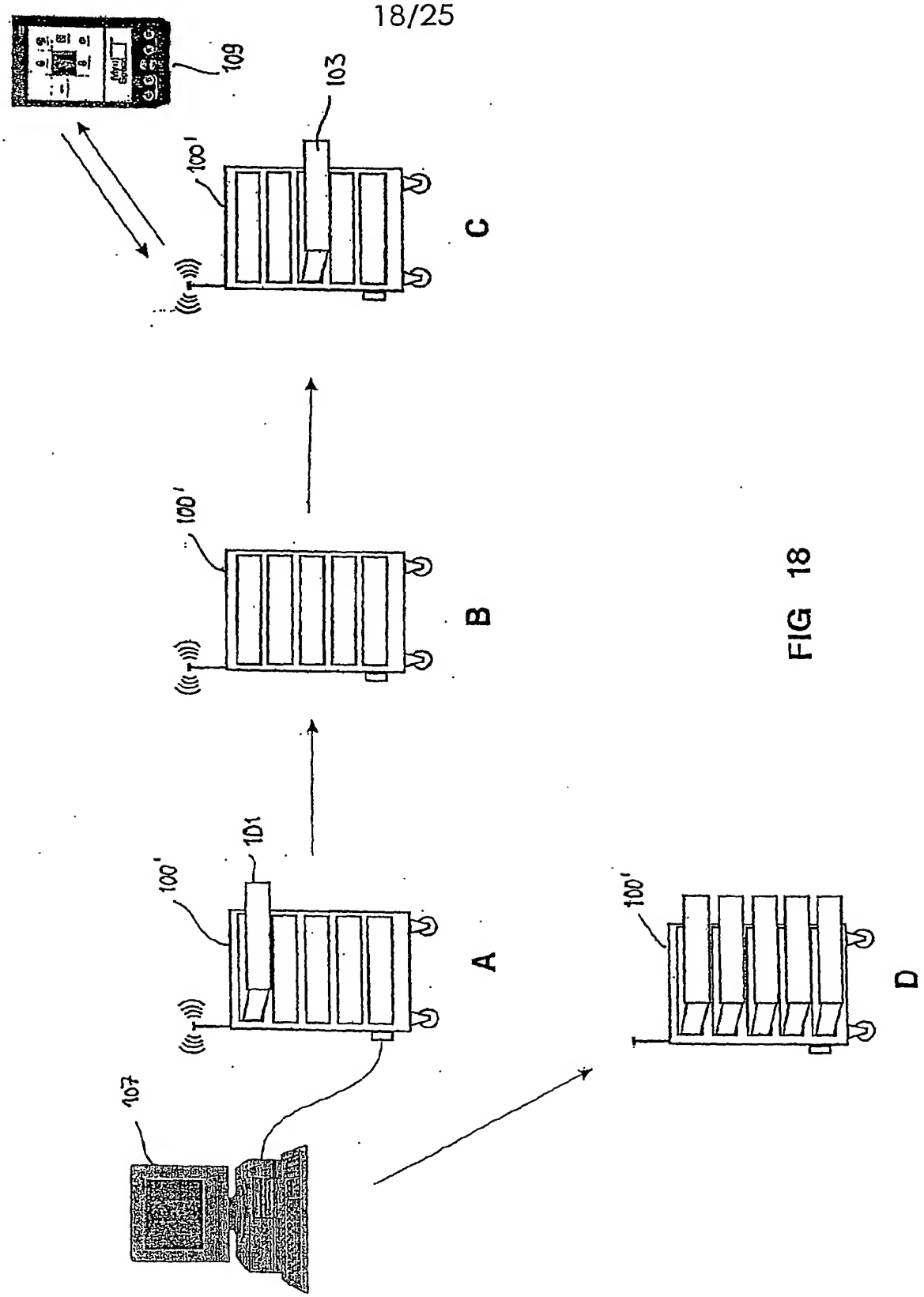


FIG 18

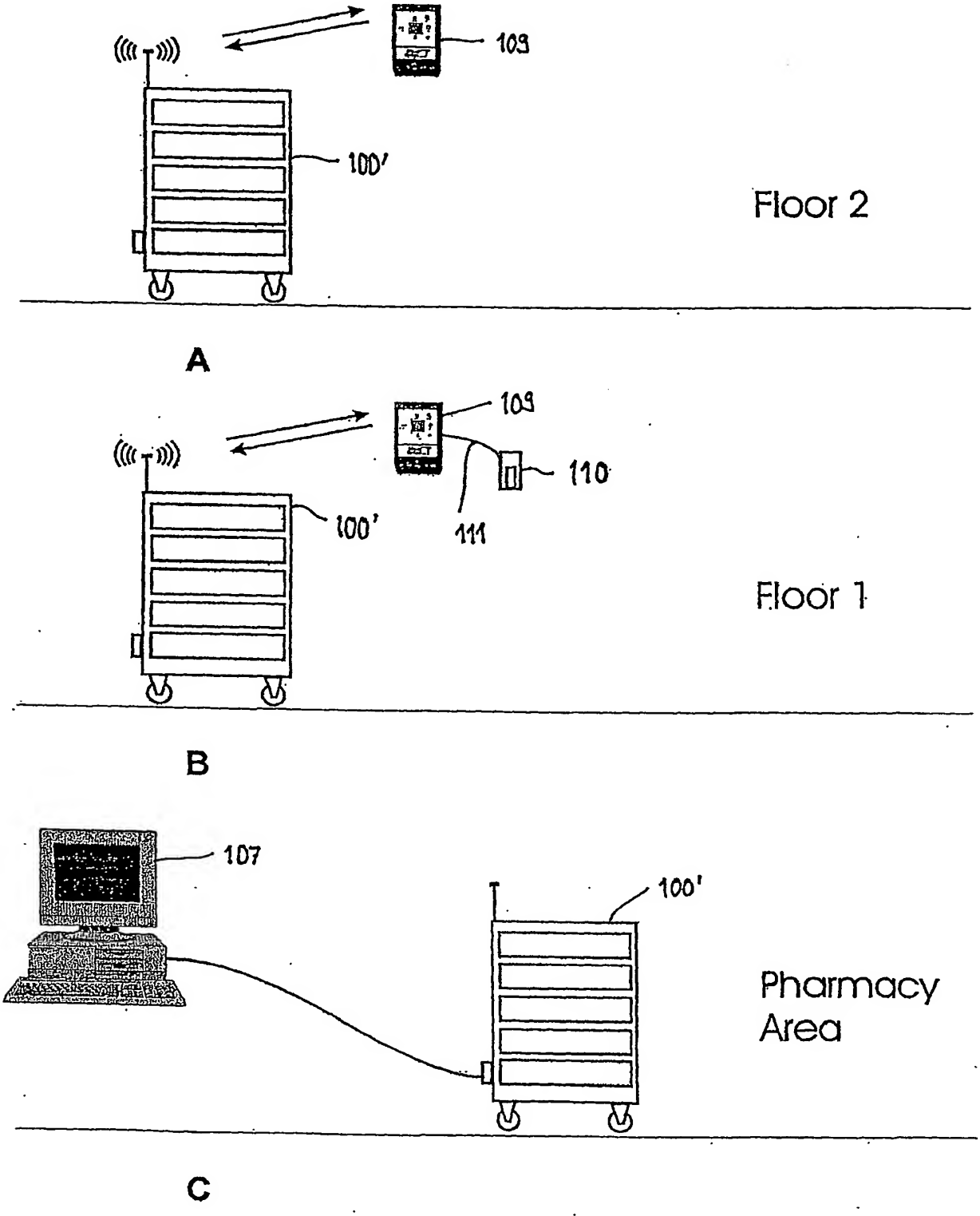

109
100'
Floor 2
A
109
110
100'
111
Floor 1
B
107
100'
Pharmacy
Area
C

FIG 19

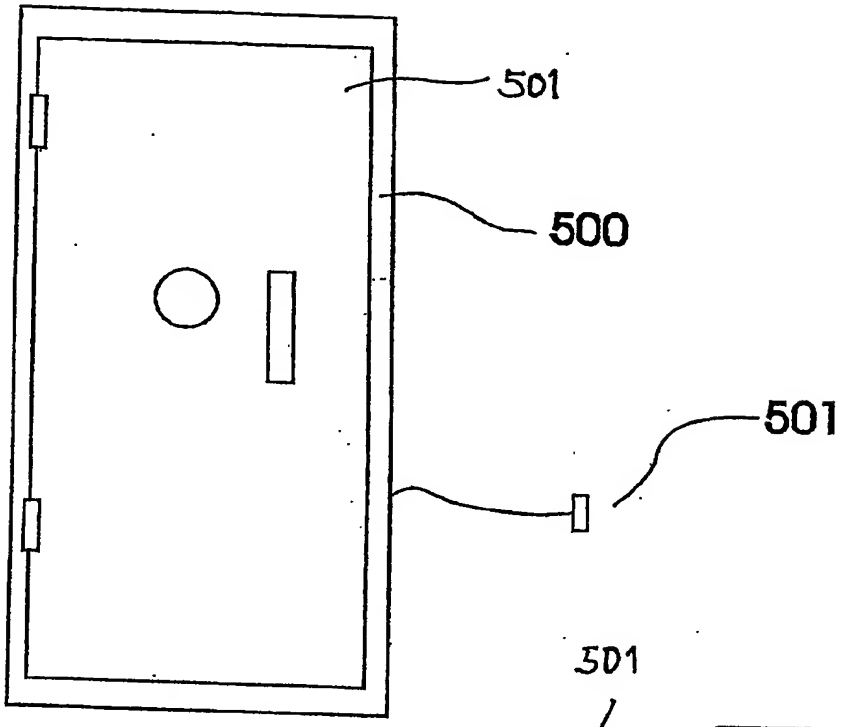


Fig. 20a

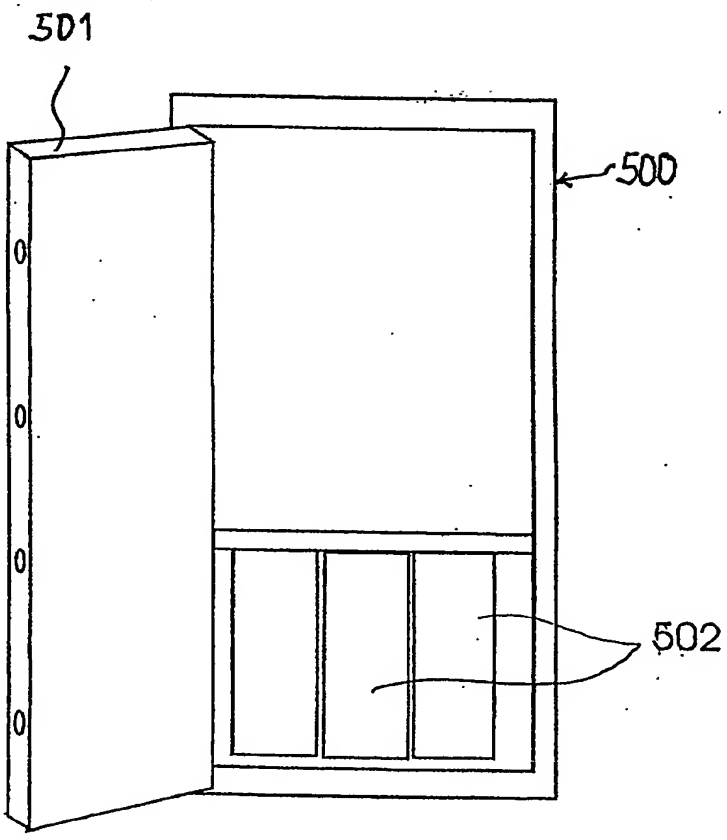


Fig. 20b

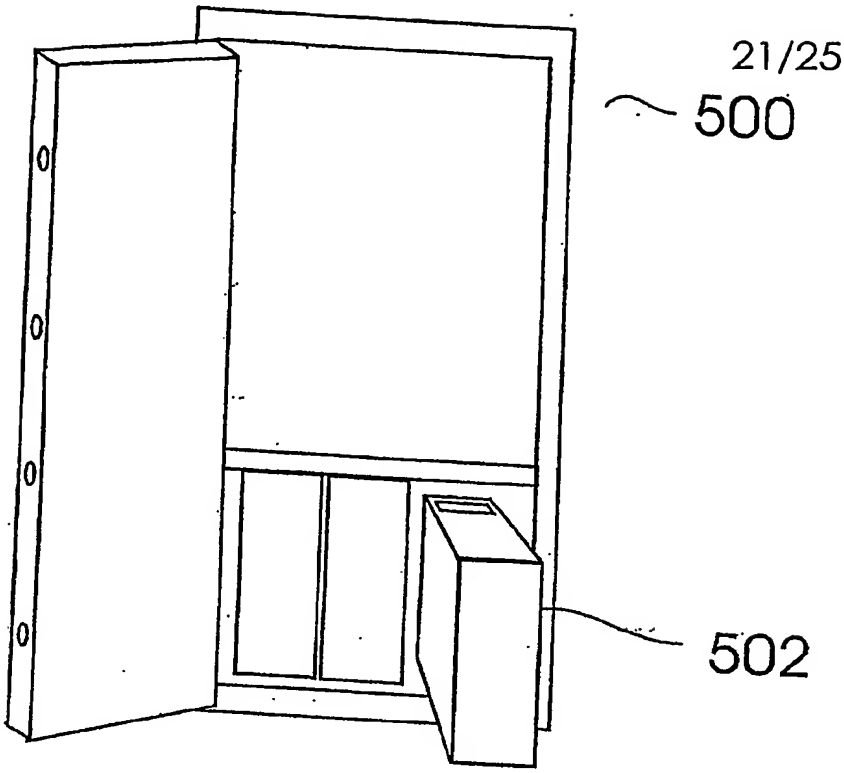


Fig. 21a

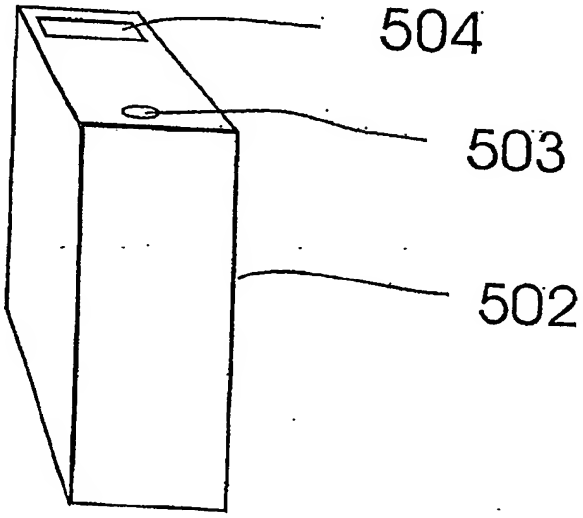


Fig. 21b

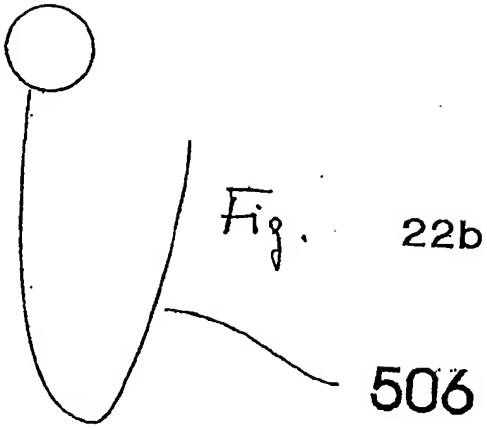


Fig. 22b

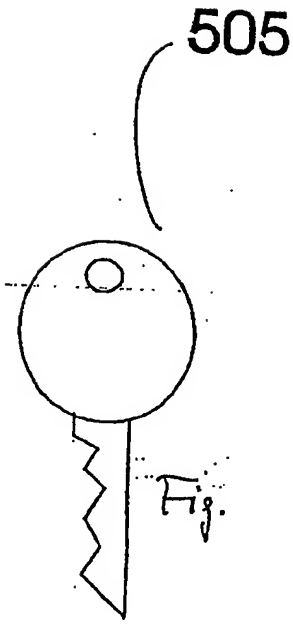


Fig. 22a

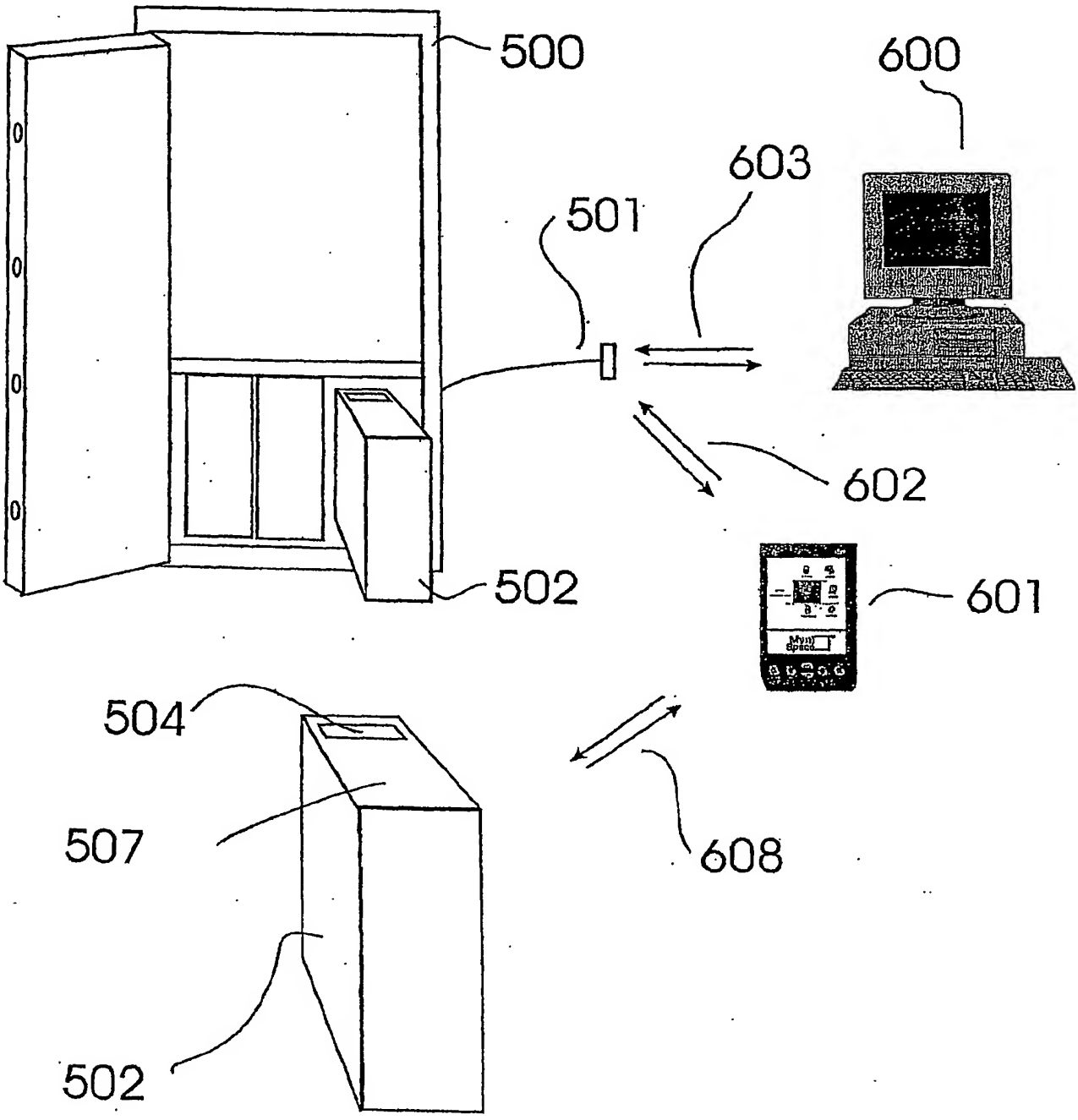


FIG 23

Control Point A

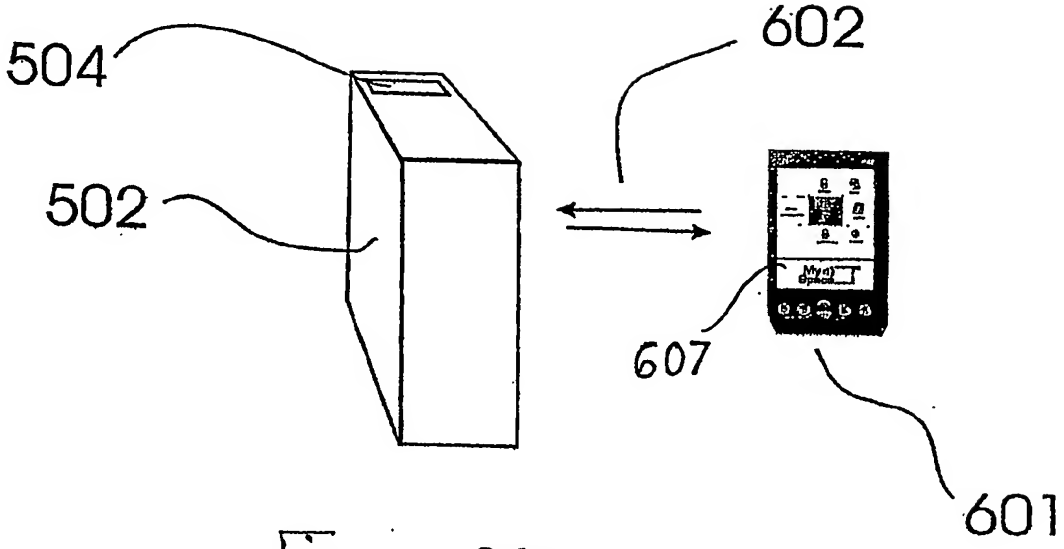


Fig. 24a

Control Point B

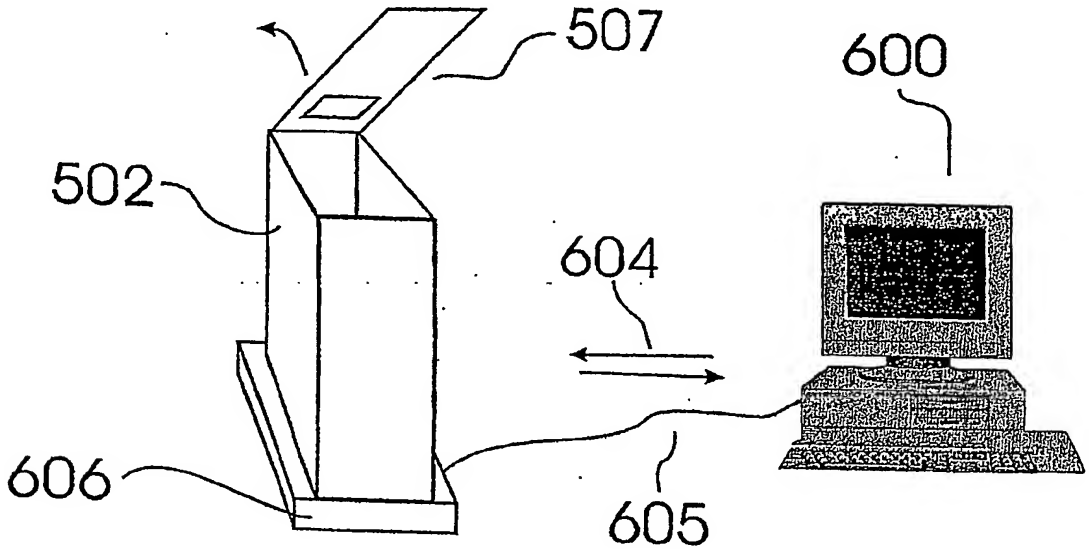


Fig. 24b

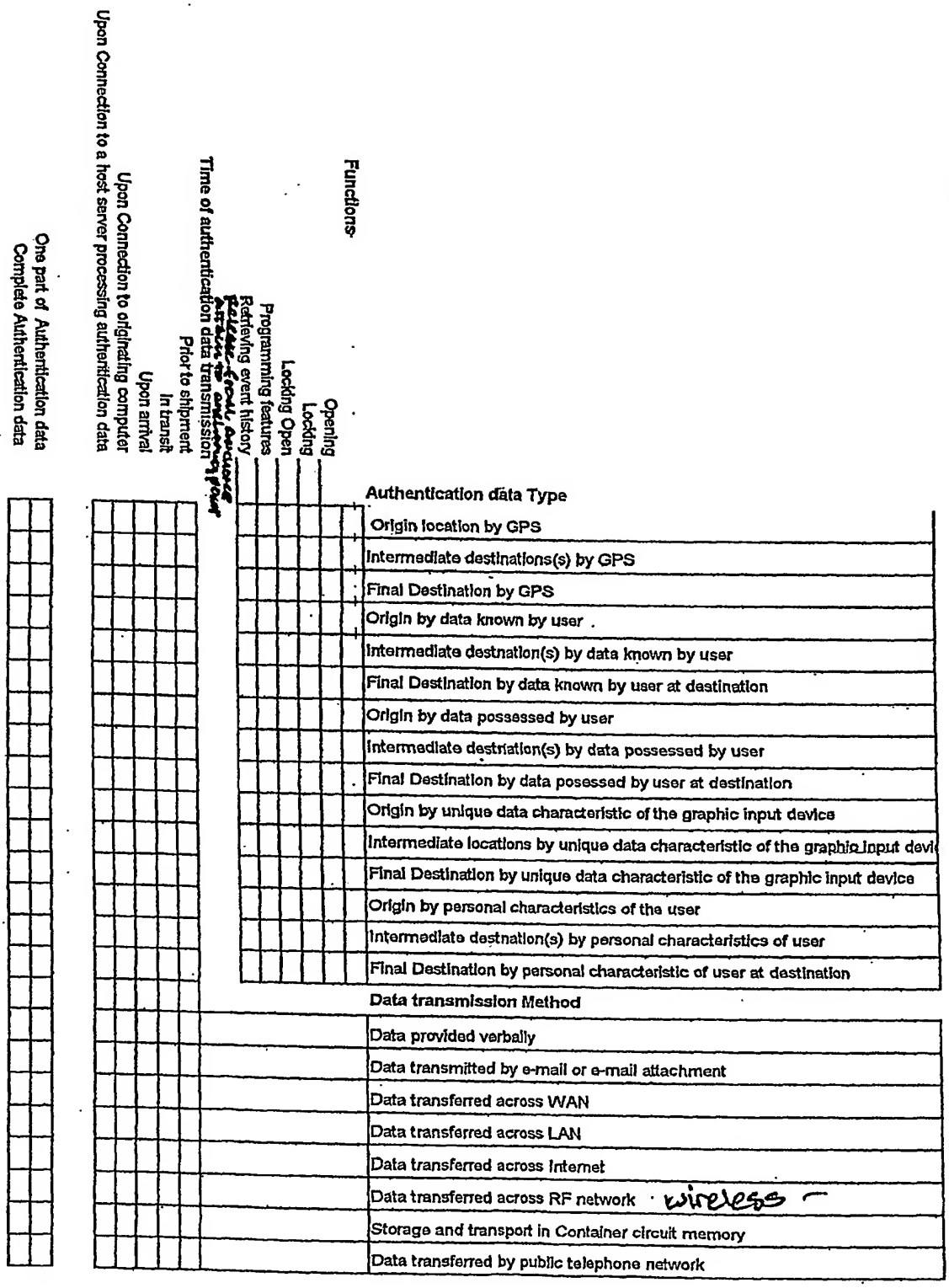

General Method of Operation
Functions
Opening
Locking
Locking Open
Programming features
Retrieving event history
Time of authentication data transmission
Prior to shipment
In transit
Upon arrival
Upon Connection to originating computer
Upon Connection to a host server processing authentication data
One part of Authentication data
Complete Authentication data
Authentication data Type
Origin location by GPS
Intermediate destinations(s) by GPS
Final Destination by GPS
Origin by data known by user
Intermediate destnation(s) by data known by user
Final Destination by data known by user at destination
Origin by data possessed by user
Intermediate destriation(s) by data possessed by user
Final Destination by data posessed by user at destination
Origin by unique data characteristic of the graphic input device
Intermediate locations by unique data characteristic of the graphic input devi
Final Destination by unique data characteristic of the graphic input device
Origin by personal characteristics of the user
Intermediate destnation(s) by personal characteristics of user
Final Destination by personal characteristic of user at destination
Data transmission Method
Data provided verbally
Data transmitted by e-mail or e-mail attachment
Data transferred across WAN
Data transferred across LAN
Data transferred across Internet
Data transferred across RF network
wireless
Storage and transport in Container circuit memory
Data transferred by public telephone network

FIG. 25